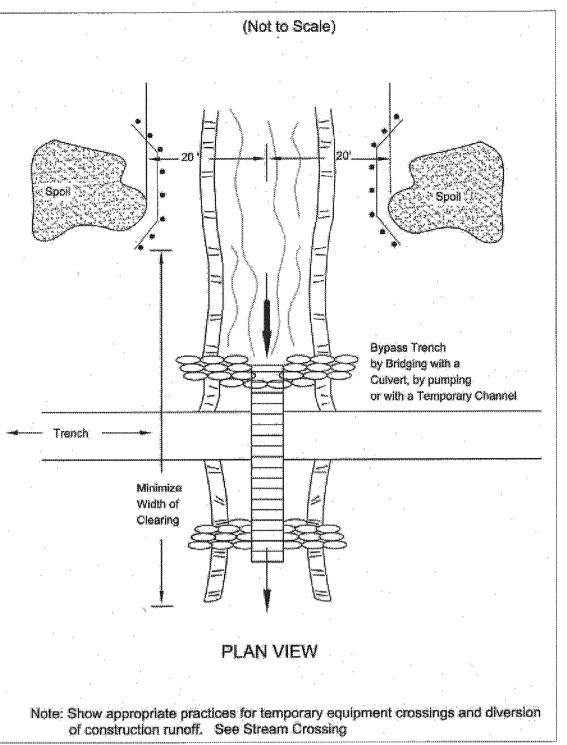


Specifications

Small Stream Utility Crossing



Specifications

Stream Utility Crossing

- When site conditions allow, one of the following shall be used to divert stream flow or keep the flow away from
- Drill or bore the utility lines under the stream channel. * Construct a cofferdam or barricade of sheet pilings,
- through the disturbed area. Turbidity curtains shall be a pre-assembled system and used only parallel to flow. · Stage construction by confining first one-half of the chan-
- nel until work there is completed and stabilized, then move to the other side to complete the crossing. Route the stream flow around the work area by bridging the trench with a rigid culvert, pumping, or constructing
- 2: Crossing Width -The width of clearing shall be minimized through the riparian area. The fimits of disturbance shall be as narrow as possible including not only construction
- operations within the channel itself but also clearing done through the vegetation growing on the streambanks. 3. Clearing shall be done by cutting NOT grubbing. The roots
- 4. Material excavated from the trench shall be placed at
- To the extent other constraints allow, stream shall be
- crossed during periods of low flow. Ouration of Construction -The time between initial distur-
- bance of the stream and final stabilization shall be kept to a minimum. Construction shall not begin on the crossing until the utility line is in place to within 10 ft.

- 7. Fill Placed Within the Channel -The only fill permitted in the channel should be clean aggregate, stone or rock No soil or other fine erodible material shall be placed in the channel. This restriction includes all fill for temporary crossings, diversions, and trench backfill when placed in flowing water. If the stream flow is diverted away from construction activity the material originally excavated from the trench may be used to backfill the trench.
- 8. Streambank Restorations -Streambanks shall be restored to their original line and grade and stabilized with riprap or vegetative bank stabilization.
- 9. Runoff Control Along the Right-of-Way -To prevent sediment-laden runoff from flowing to the stream, runoff shall be diverted with water bar or swales to a sediment trapping practice a minimum of 50 ft. from the stream.
- Sediment laden water from pumping or dewatering or pumping shall not be discharged directly to a stream. Flow shall be routed through a settling pond, dewatering sump or a flat, well-vegetated area adequate for removing sediment before the pumped water reaches the stream. . Dewatering operations shall not cause significant reduc-
- tions in stream temperatures. If groundwater is to be discharged in high volumes during summer months, it shall first be routed through a settling pond or overland though a flat well-vegetated area.
- 12. Permits -In addition to these specifications, stream crossings shall conform to the rules and regulations of the U.S. Army Corps of Engineers for in-stream modifications (404 permits) and Ohio Environmental Protection Agency's State Water Quality Certification (401 permits).

LB./1000 FT.

3

1

1

USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING

PER AC.

40 LB.

2 BUSHEL

4 BUSHEL

TEMPORARY SEEDING SPECIFICATIONS

SPECIES

TALL FESCUE

TALL FESCUE

TALL FESCUE

TALL FESCUE

TALL FESCUE

WHEAT

ANNUAL RYEGRASS

PERENNIAL RYEGRASS

ANNUAL RYEGRASS

ANNUAL RYEGRASS

ANNUAL RYEGRASS

PERENNIAL RYEGRASS

ANNUAL RYEGRASS

OATS

EROSION AND SEDIMENT CONTROL

SILT FENCE ALL SILT FENCE SHALL BE INSTALLED PRIOR TO ANY EARTHWORK ACTIVITIES AT THE SITE IN THE LOCATIONS SHOWN ON THE SITE PLAN AS WELL AS ALONG THE FRONT OF ANY LOT THAT SLOPES TOWARDS THE STREET.

TEMPORARY SEEDING DISTURBED AREAS OF THE SITE THAT ARE TO REMAIN IDLE FOR MORE THAN TWENTY-ONE (21) DAYS SHALL BE PROPERLY SEEDED AND STRAW MULCHED WITHIN SEVEN (7) DAYS OF COMPLETION OF INITIAL GRADING. TEMPORARY SEEDING AND MULCHING OF A THIRTY (30) FOOT STRIP OF THE ENTIRE FRONT OF THE LOT SHALL BE MAINTAINED ON THE SITE ONCE INITIAL GRADING IS COMPLETE.

STABILIZATION OF CRITICAL AREAS WITHIN FIFTY (50) FEET OF ANY STREAM OR WETLAND SHALL BE COMPLETE WITHIN TWO (2) DAYS OF THE DISTURBANCE IF THE SITE IS TO REMAIN INACTIVE FOR LONGER THAN FOURTEEN (14) DAYS.

MULCHING STRAW-MULCH SHALL BE APPLIED AT A RATE OF 1 BALE PER EVERY TEN (10) FEET OF CURB, AT A WIDTH OF THIRTY (30) FEET OF THE ENTIRE LENGTH OF THE LOT. WOOD CHIPS MAY ALSO BE USED BUT MUST BE SPREAD AT A MINIMUM DEPTH OF FOUR INCHES OVER THE THIRTY-FOOT WIDTH AND MUST BE ACCOMPANIED BY A PROPERLY INSTALLED SILT FENCE.

MAINTENANCE EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL EVENT.

NECESSARY REPAIRS SHALL BE MADE AT THIS TIME.

INGRESS-EGRESS A STONE ACCESS DRIVE COMPLETE WITH UNDER LYING GEO-TEXTILE FABRIC (14 FEET WIDE AND 30 FEET LONG WITH 6-10 INCH STONE DEPTH) FOR INGRESS AND EGRESS AT THE SITE SHALL BE INSTALLED. THIS DRIVE SHALL BE THE ONLY ENTRANCE AND EXIT TO THE SITE.

STREETS DIRECTLY ADJACENT TO THE CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA, SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED OFF-SITE. IF APPLICABLE, THE CATCH BASINS ON THESE STREETS NEAREST TO THE CONSTRUCTION ENTRANCES SHALL BE CLEANED WEEKLY.

ALL EROSION AND SEDIMENT CONTROL SPECIFICATIONS, APPLICATIONS, AND TIMETABLES ARE BASED OF THE DESCRIPTIONS AND STANDARDS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT MANUAL" AND CAN BE FOUND IN THE LAKE COUNTY EROSION AND SEDIMENT CONTROL RULES AS ADOPTED DECEMBER 21, 1999.

THE SPECIFIED EROSION AND SEDIMENT CONTROL STANDARDS ARE GENERAL GUIDELINES AND SHALL NOT LIMIT THE RIGHT OF THE REQUIREMENTS, NOR SHALL THE STANDARDS LIMIT THE RIGHT OF THE COUNTY TO WAIVE, IN WRITING, INDIVIDUAL REQUIREMENTS.

SOIL AND EROSION CONTROL NOTE:

SITE ACREAGE 1.0097 ACRES DISTURBED AREA 0.4351 ACRES PROPOSED IMPERVIOUS AREA 0.0936 ACRES PERCENT IMPERVIOUS 9.3%

Builder and all subcontractors shall review this plan to verify house dimensions and all site improvements for any discrepancies, omissions and changes and notify Barrington Consulting Group, Inc. prior to any site work.

GENERAL NOTES:

BENCHMARK - TOP STEM OF EXISTING FIRE HYDRANT LOCATED AS SHOWN IN SITE PLAN, ELEVATION = 839.42. DRIVEWAY APRON TO BE 6" THICK CONCRETE. 3. ALL DOWNSPOUTS TO BE OUTLETTED TO SPLASH BLOCKS. 4. CONTRACTOR RESPONSIBLE FOR CONTACTING THE OHIO UTILITY PROTECTION SERVICE (1.800.362,2764) AND ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. 5. THE LOCATION BOTH HORIZONTAL AND VERTICAL OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A DILIGENT AND COMPREHENSIVE SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL, HOWEVER, BARRINGTON CONSULTING GROUP, INC. DOES NOT GUARANTEE THE COMPLETENESS, NOR ACCURACY THEREOF.

6. CONTRACTOR SHALL VERIFY ELEVATIONS OF LATERAL INVERTS IN THE FIELD PRIOR TO FOUNDATION EXCAVATION. 7. PRIOR TO ANY WORK BEING PERFORMED WITH THE RIGHT OF WAY AND/OR UNDERGROUND UTILITY EASEMENTS, CONTRACTOR SHALL CONFIRM THAT ALL REQUIRED CLEARANCES AND BURY DEPTHS OF ALL UNDERGROUND UTILITIES WILL BE MAINTAINED AS A RESULT OF

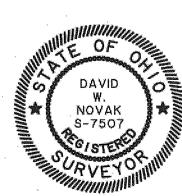
CERTIFICATION :

ANY AND ALL SITE IMPROVEMENTS.

THE UNDERSIGNED HEREBY CERTIFIES THAT THIS TOPOGRAPHY REPRESENTS AN ACTUAL SURVEY MADE BY ME ON THE 20th DAY OF JUNE, 2014 AND THE ELEVATIONS WERE TAKEN AT AN APPROPRIATE NTERVAL AND AS OF THAT DAY THEY EXISTED AS INDICATED

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME AND IS

DAVID W. NOVAK, P.S. No. 7507



Stormwater Management Plan Approved as shown and/or noted JAMES R. GILLS, RE. County Drainage Engineer 1.5. Date 7-30-14

12022-21B

JULY 22, 2014

21B SARAH LE CALI WOODS 3

JUNE 30, 2014 1" = 20' 12022-21B